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Appendix A –User Evaluation questioner

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USER EVALUATION OF AN INTERACTIVE COMPUTER SYSTEM

Skip question if not applicable

1. System Usability

Please circle the appropriate number against each question, using the scale given below

1	2	3	4	5
Strongly disagree	Disagree	Neutral	Agree	Strongly Agree

I.	I think I would like to use this website frequently	1	2	3	4	5
II.	I found the website unnecessarily complex	1	2	3	4	5
III.	I thought the website was easy to use	1	2	3	4	5
IV.	I think I would need tech Support to be able to use this website	1	2	3	4	5
V.	I found the various functions in this website were well integrated	1	2	3	4	5
VI.	I thought there was too much inconsistency in this website	1	2	3	4	5
VII.	I would imagine that most people would learn to use this website very quickly	1	2	3	4	5
VIII.	I found the website very cumbersome to use	1	2	3	4	5
IX.	I felt very confident using the website.	1	2	3	4	5
X.	I need to learn a lot about this website before i could effectively use it.	1	2	3	4	5
XI.	I would like to use this web site in the future	1	2	3	4	5

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2. User Interface Satisfaction

Please circle the appropriate number against each question

I.	Reading characters on the page	Hard	1	2	3	4	5 easy
II.	Organization of information	confusing	1	2	3	4	5 Very clear
III.	Sequence of pages	confusing	1	2	3	4	5 Very clear
IV.	Use of terms throughout website	hard	1	2	3	4	5 easy
V.	Hyperlink & navigation	hard	1	2	3	4	5 easy

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VI.	Design of a page contains minimum screen elements	Strongly Disagree	1	2	3	4	5	Strongly agree
VII.	Design of a page provides relevant information only	Strongly Disagree	1	2	3	4	5	Strongly agree
VIII.	Dialog boxes provide adequate information to perform the task	Strongly Disagree e	1	2	3	4	5	Strongly agree
IX.	Position of messages on screen	inconsistence	1	2	3	4	5	consistence
X.	Color choices visually accessible	Poor	1	2	3	4	5	Excellent
XI.	Design audience appropriate	Poor	1	2	3	4	5	Excellent

3. System Capabilities

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I.	System Speed	Too slow	1	2	3	4	5	Fast enough
II.	System Reliability	unreliable	1	2	3	4	5	reliable
III.	System tends to be	noisy	1	2	3	4	5	quiet
IV.	Correcting your mistake	hard	1	2	3	4	5	easy
V.	Experience and inexperienced users needs are taken into consideration	never	1	2	3	4	5	always

4. Learning

I.	Learning to operate the system	difficult	1	2	3	4	5	easy
II.	Exploring new features by trial and error	difficult	1	2	3	4	5	easy
III.	Remembering names and use of commands	difficult	1	2	3	4	5	easy
IV.	Tasks can be performed in a straight-forward manner	never	1	2	3	4	5	always
V.	Help messages on the screen	unhelpful	1	2	3	4	5	helpful

VI. Supplement reference materials confusing | 1 | 2 | 3 | 4 | 5 | clear

5. Overall impression of the system

Please circle the appropriate number against each question, using the scale given below

1	2	3	4	5
Strongly disagree	Disagree	Neutral	Agree	Strongly Agree

I.	System is quite easy to use	1	2	3	4	5
II.	System is highly integrative, easy and quick to access	1	2	3	4	5
III.	System is unfriendly and not easy to use	1	2	3	4	5
IV.	System is slow in loading	1	2	3	4	5
V.	System is easy to learn and the information provided is helpful	1	2	3	4	5
VI.	System in general is 'alright'	1	2	3	4	5
VII.	System is a one-stop information centre	1	2	3	4	5

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6. Other

I. Please provide an overall impression of how you feel about the ease of use

.....
.....
.....

II. What are the features you like best about the web site

.....
.....
.....

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III. What are the features you like least about the web site

.....
.....
.....

IV. List the problems you have encountered while using system interface.

.....
.....
.....

V. Please suggest some ideas about what you would like to see in this system

.....
.....
.....

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Thank you for your help and participation

Appendix B – Apache , PHP ,MySQL And PhpMyadmin installation

Installing Apache2

Entering a simple command in the Terminal will start the installation process. Follow the steps below to install Apache2.

1. Navigate to **Applications> Accessories > Terminal to fire up the terminal window.**

2. Enter the following command to start the installation:

   sudo apt-get install apache2

   Enter the password and hit Enter.

3. Once the installation is completed, close the Terminal window. Open web browser and enter the following URL to test if the installation is successful:

   http://localhost/

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If successful, see the Apache2 placeholder page. (Image below)

It works!

This is the default web page for this server.

The web server software is running but no content has been added, yet.

Installing PHP5

PHP is a widely used scripting language used by a lot of web developers for designing dynamic web pages. Most of the modern web servers support PHP. Follow the given steps to install PHP5.

1. Enter the following command to install PHP5 and Apache PHP5 module :

   sudo apt-get install php5 libapache2-mod-php5

2. Restart Apache2.

   sudo /etc/init.d/apache2 reload

3. Create the phpinfo.php file using gedit.

```
sudogedit /home/<user>/server/phpinfo.php
```

4. Copy the following code into the file and save it.

```
<?phpphpinfo(); ?>
```

5. Now, open your web browser and enter the following URL.

```
http://localhost/phpinfo.php
```

get a web page as shown below.

PHP Version 5.3.2-1ubuntu4

System	Linux server1.example.com 2.6.32-21-server #32-Ubuntu SMP Fri Apr 16 09:17:34 UTC 2010 x86_64
Build Date	Apr 9 2010 08:09:02
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php5/apache2
Loaded Configuration File	/etc/php5/apache2/php.ini
Scan this dir for additional .ini files	/etc/php5/apache2/conf.d
Additional .ini files parsed	/etc/php5/apache2/conf.d/pdo.ini
PHP API	20090626
PHP Extension	20090626
Zend Extension	220090626
Zend Extension Build	API220090626,NTS
PHP Extension Build	API20090626,NTS
Debug Build	no

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This shows that PHP5 has been successfully installed on your OS.

3. Installing MySQL

1. Fire up the Terminal and enter the following command:

```
sudo apt-get install mysql-server mysql-client
```

During the installation, you will be asked to provide a password for the MySQL "root" user. This password will be used to login to MySQL.

2. After installing MySQL, you need to configure PHP to use MySQL. Installing the php5-mysql package enables MySQL support in PHP. It enables you to use PHP to connect to MySQL databases.

```
sudo apt-get install php5-mysql
```

3. Installing phpMyAdmin: phpMyAdmin is a web interface for managing your MySQL databases. It can perform various actions such as creating, deleting, modifying databases etc. To install phpMyAdmin enter the following command :

```
sudo apt-get install phpmyadmin
```

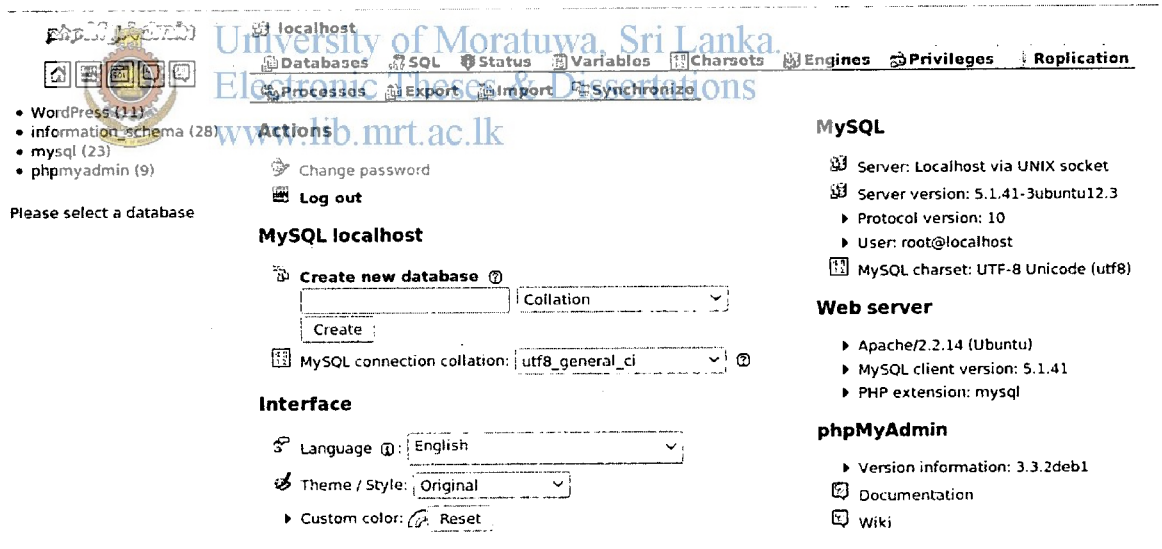
During the installation use the following options:

Web server to configure automatically: Apache2

Configure database for phpmyadmin with dbconfig-common?: No

iv. To access phpMyAdmin, open your browser and enter the following URL:

```
http://localhost/phpmyadmin/
```



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(Source: ubuntu-*manual.org and Ubuntu 10.04 manual)*

Appendix C –User Manual

Considering Normal users (civilian)

1. Open the Web browser (Mozilla Firefox is recommended).

2. Type the URL then display the site

Civilian User's Available Options are display Following Screen Shot. System provides function users can access main menu and top menu through.

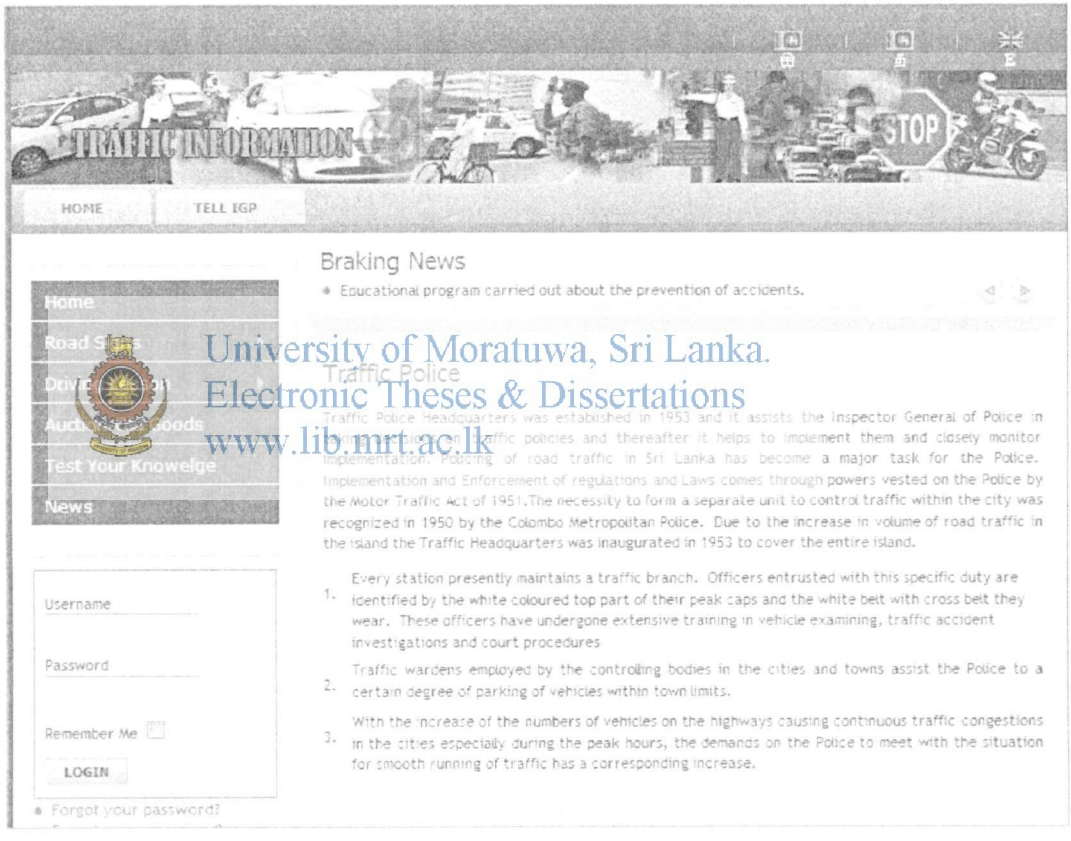
TRAFFIC INFORMATION
STOP
HOME
TELL IGP
Braking News
Educational program carried out about the prevention of accidents.
Home
Test Your Knowelge
News
Traffic Police
Traffic Police Headquarters was established in 1953 and it assists the Inspector General of Police in
implementation. Policing of road traffic in Sri Lanka has become a major task for the Police.
Implementation and Enforcement of regulations and Laws comes through powers vested on the Police by
the Motor Traffic Act of 1951.The necessity to form a separate unit to control traffic within the city was
recognized in 1950 by the Colombo Metropolitan Police. Due to the increase in volume of road traffic in
the island the Traffic Headquarters was inaugurated in 1953 to cover the entire island.
1. Every station presently maintains a traffic branch. Officers entrusted with this specific duty are identified by the white coloured top part of their peak caps and the white belt with cross belt they wear. These officers have undergone extensive training in vehicle examining, traffic accident investigations and court procedures
2. Traffic wardens employed by the controlling bodies in the cities and towns assist the Police to a certain degree of parking of vehicles within town limits.
3. With the increase of the numbers of vehicles on the highways causing continuous traffic congestions in the cities especially during the peak hours, the demands on the Police to meet with the situation for smooth running of traffic has a corresponding increase.
Username
Password
Remember Me
LOGIN
Forgot your password?
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Figure C.1: Main page of the Civilian users view

3. If someone wants to change site language they can click related language icon on the top blue bar containing (Figure C.2).
4. Then Web site content change to selected language.

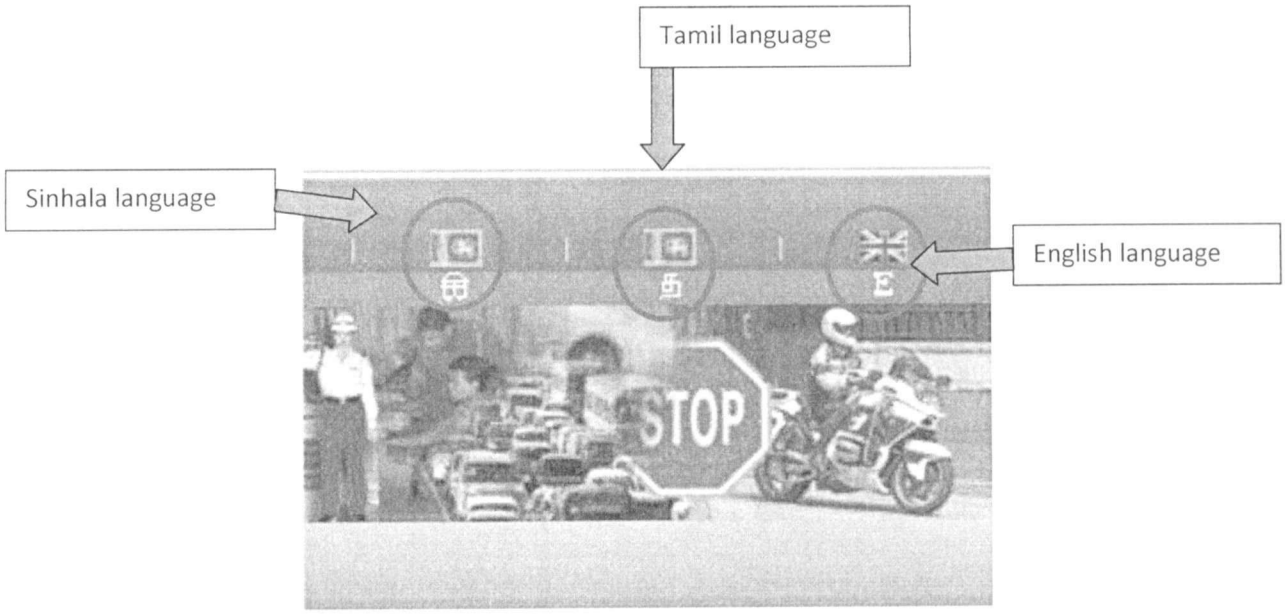

Figure C.2:Lunguage changer

5. Other web site content users can access menu through

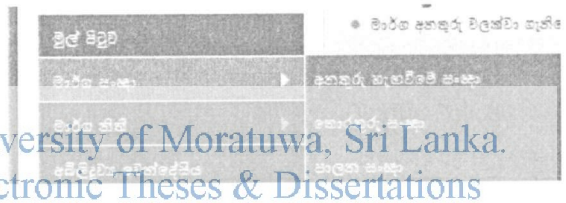

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Figure C.3: Main Menu

6. If user wants to send messages to IGP then select Tell IGP menu then appear following Form. This form some elds are indica on read * mark that men on that ll you must ll before click send bu on.

Figure C.4: Tell IGP Form

7. Users can face to online Driving Theory test practice Option go through main menu .but here user want to register that information provide step by step in three languages .after registering users their mail account got username and password

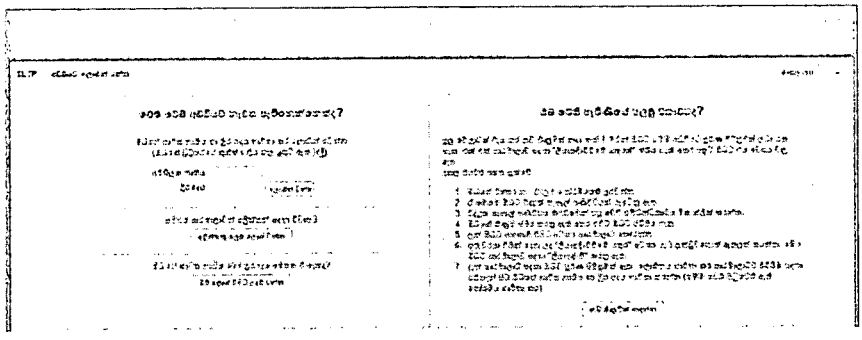

Figure C.5: user registration help and login prompt for online exam

8. After login online exam page user want to select question title then can access multiple choice questions. He or she can answer given time duration and user can save their answer page by page finally they want to submit then.

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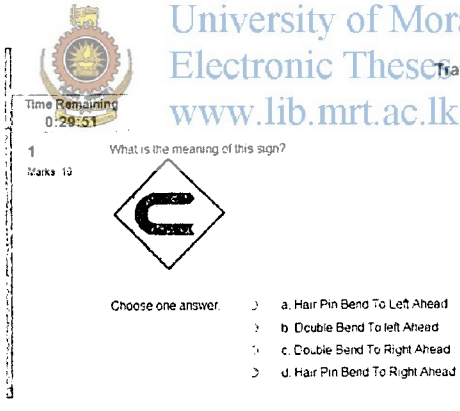
Traffic sign - Attempt 3
Time Remaining
0:29:51
Page: 1 2 (Next)
1
Marks 10
What is the meaning of this sign?
Choose one answer.
a. Hair Pin Bend To Left Ahead
b. Double Bend To left Ahead
c. Double Bend To Right Ahead
d. Hair Pin Bend To Right Ahead

Figure C.6: Multiples choice question

Considering Accountable officer

1. First Accountable users want to login officer's area to site then again confirming logging him or she can access data entering page.

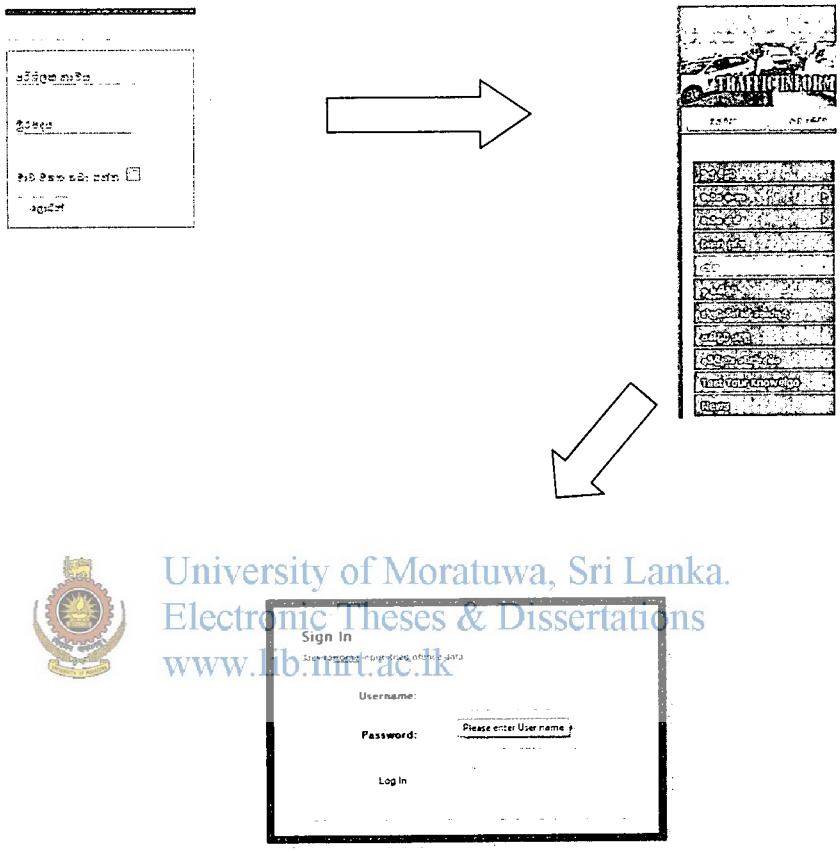

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Figure C.6: Accountable Officer Data entry page access flow

2. If accident in formation enter ring form select, user can input data .some time entering time all information are not available so that time user want to select uncompleted option in the form. Data typing filed users can use Tamil or Sinhala typing. That purpose user must use Sinhala and Tamil Unicode front.

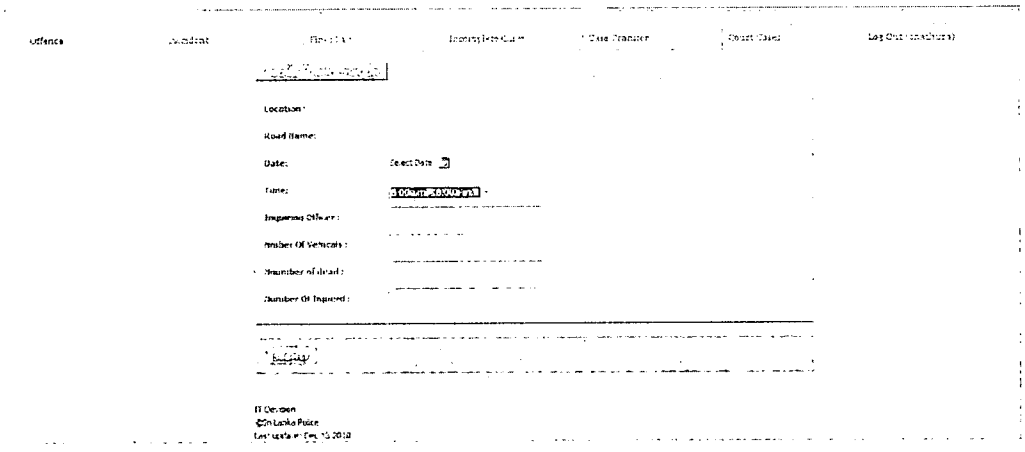

Figure C.7: Accident Information input form

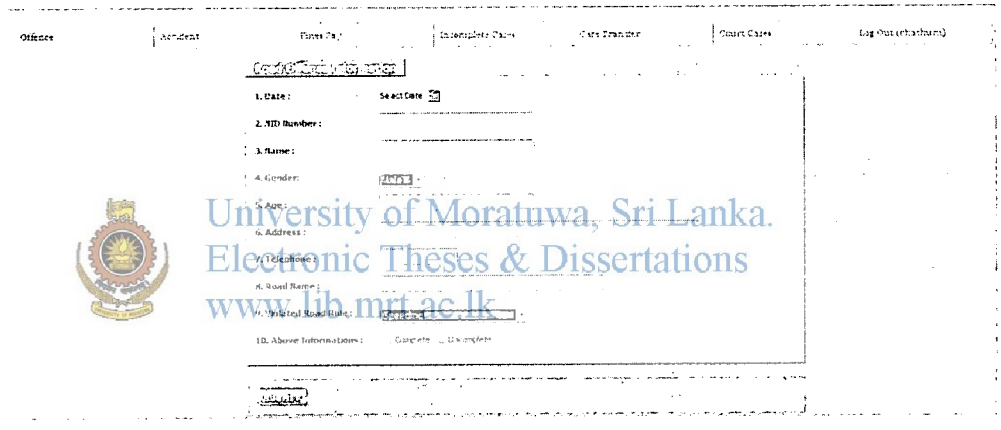
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Figure C.7: Road offence Information input form

3. Accountable officer can view and complete Uncompleted Cases using "Incomplete Case " page

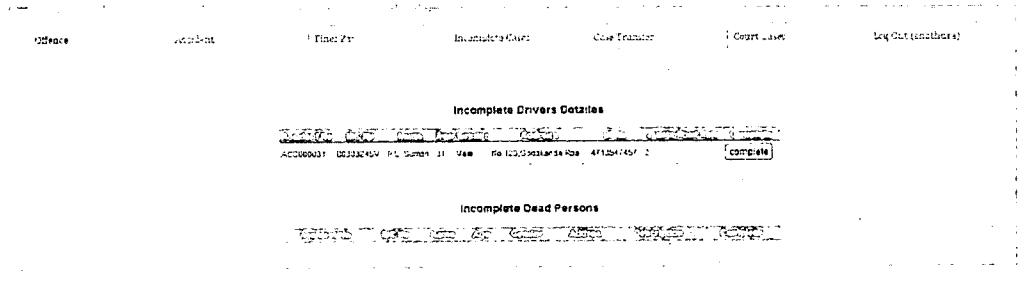

Figure C.7: Incomplete Case page

4. Case transfer page display directly forward case to court cases and fines not paid within 14 day cases information. Here officer want manually transfer this cases to court. (officer can view his branch related cases only)

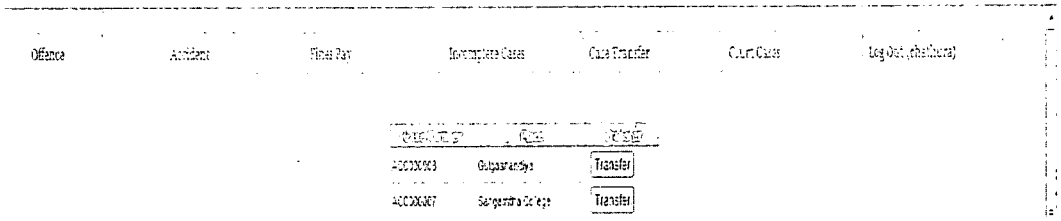

Figure C.7: Court forward pending cases

5. Court case page can maintain court orders and related information

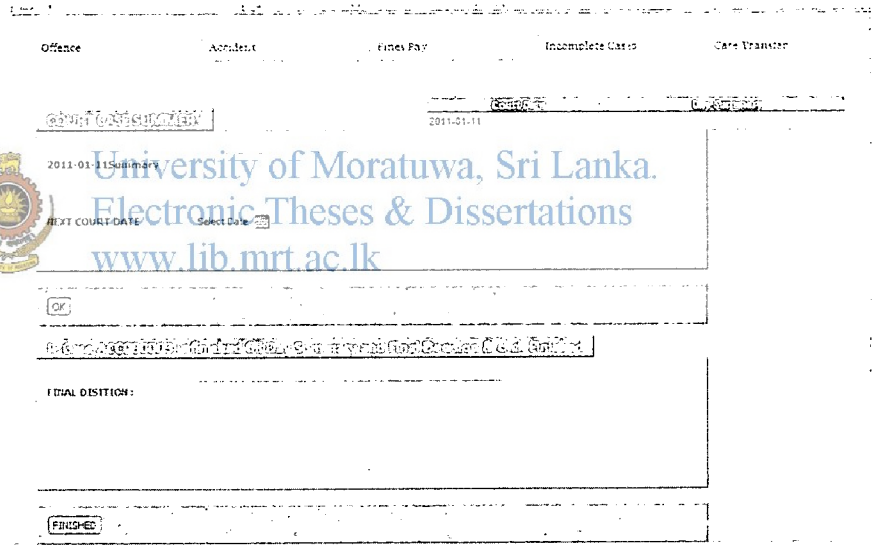

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Figure C.8: Court cases information

6. Fines pay page provide facility to finish the case after the violator fines pay.

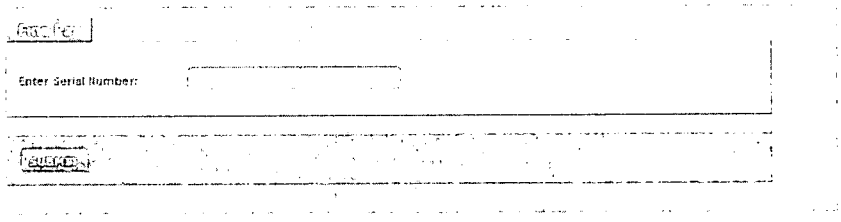

Figure C.9: Pay fines

7. Report module has different dynamical change parameters. Changing that parameters user can get different type of summary's information and charts.

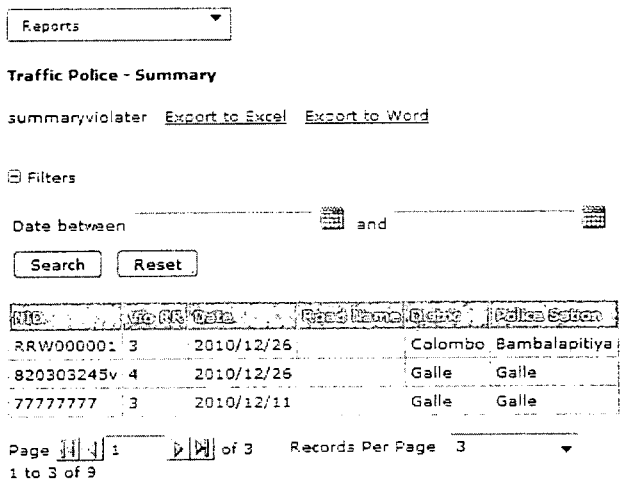
Reports
Traffic Police - Summary
summaryviolater Export to Excel Export to Word
Filters
Date between and
Search Reset
RRW000001 3 2010/12/26 Colombo Bambalapitiya
820303245v 4 2010/12/26 Galle Galle
77777777 3 2010/12/11 Galle Galle
Page 1 of 3 Records Per Page 3
1 to 3 of 3

Figure C.10: District or police station vise violated road rules summary

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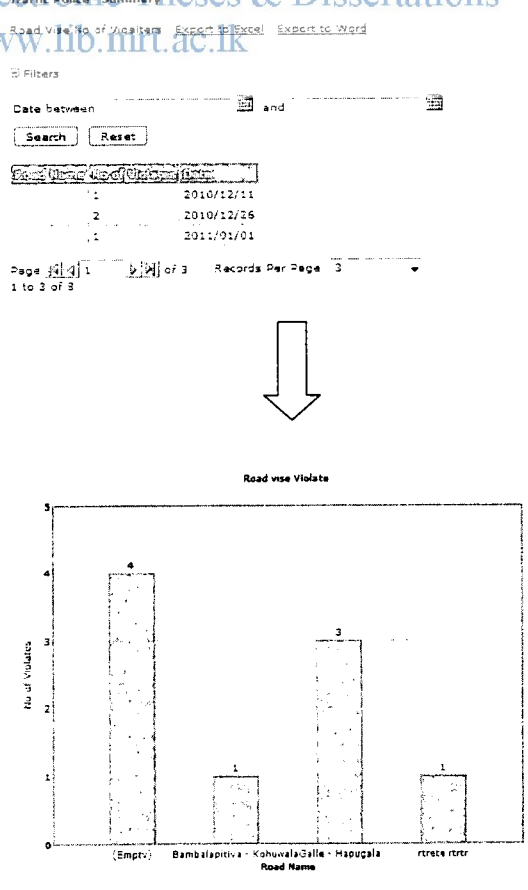

Appendix D – Recorded Test Cases

Test case id:	1
Unit to test:	Test the login into system
Assumptions:	Valid user name and passwords are entered manually when the system implement
Test data:	User name-SG345678 Password- Ch@nG31T
Steps to be executed:	Enter user name and password in the text box
Expected result:	Display The data Entering main Page
Actual result:	Display the Page
Pass/Fail:	Pass
Comments:	Module work correctly

Test case id:	2
Unit to test:	Test the login into system
Assumptions:	Valid user name and passwords are entered manually when the system implement
Test data:	User name-SG345678 Password- Ch123
Steps to be executed:	Enter user name and password in the text box
Expected result:	Display The data Entering main Page
Actual result:	Error massage and redirect to login page
Pass/Fail:	Pass
Comments:	Module work correctly

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Test case id:	3
Unit to test:	Accident Information Input
Assumptions:	Valid user is login to the system
Test data:	Location –Beligaha Junction Road Name: Galle To karapityia Date -2010-10-25 Time:6.00a.m. - 8.00a.m. Nmber Of Vehicles : 1 Number of dead : Number Of Injured :
Steps to be executed:	Enter All the text boxes with data
Expected result:	Dynamical Generated Form According to Nmber Of Vehicles, Number of dead ,Number Of Injured
Actual result:	Dynamically generated Driver's and vehicle information

	entering form set
Pass/Fail:	Pass
Comments:	Module work correctly

Test case id:	4
Unit to test:	Accident Information Input
Assumptions:	Valid user is login to the system
Test data:	Location –Bataganwila Road Name: Galle To karapityia Date -2010-10-21 Time:8.00a.m. - 10.00a.m. Nmber Of Vehicals : 1 Number of dead :1 Number Of Injured :
Steps to be executed:	Enter All the text boxes with data
Expected result:	Dynamical Generated Form According to Nmber Of Vehicals, Number of dead ,Number Of Injured
Actual result:	Dynamically generated Driver's , dead person and vehicle information entering form set
Pass/Fail:	Pass
Comments:	Module work correctly

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Test case id:	5
Unit to test:	Accident Information Input
Assumptions:	Valid user is login to the system
Test data:	Location –Atabagha Road Name: Galle To Wakwella Date -2010-10-21 Time:8.00a.m. - 10.00a.m. Nmber Of Vehicals : 1 Number of dead : Number Of Injured :2
Steps to be executed:	Enter All the text boxes with data
Expected result:	Dynamical Generated Form According to Nmber Of Vehicals, Number of dead ,Number Of Injured
Actual result:	Dynamically generated Driver's , Injured person and vehicle information entering form set
Pass/Fail:	Pass
Comments:	Module work correctly

Test case id:	6
Unit to test:	Accident Information Input
Assumptions:	Valid user is login to the system
Test data:	Location –Atabagha Road Name: Galle To Wakwella Date -2010-10-20 Time:8.00a.m. - 10.00a.m. Number Of Vehicles : 1 Number of dead :1 Number Of Injured :2
Steps to be executed:	Enter All the text boxes with data
Expected result:	Dynamical Generated Form According to Nmber Of Vehicles, Number of dead ,Number Of Injured
Actual result:	Dynamically generated Driver's , Injured person , dead person and vehicle information entering form set
Pass/Fail:	Pass
Comments:	Module work correctly

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